

Name: _____

Date: _____

Practice Quiz: Radicals Lessons #1-5**Part One: Concept Check:** Circle the correct word or expression in each set of parentheses.1. In the radical expression $6\sqrt{2x}$, the radicand is (6 or $2x$).2. $\sqrt{5} + 2\sqrt{5} = (3\sqrt{5} \text{ or } 3\sqrt{25})$.

3. The process of breaking down a number into its primes is called prime (factorization or radicalization).

Part Two: Simplify completely.

4. $\sqrt{300}$

5. $6\sqrt{72}$

6. $(\sqrt{10})(\sqrt{50})$

7. $(2\sqrt{8})(3\sqrt{14})$

8. $\frac{7}{\sqrt{7}}$

9. $\frac{4\sqrt{7}}{\sqrt{14}}$

TURN PAPER OVER!

10. $3\sqrt{3} + 4\sqrt{75}$

11. $2\sqrt{12} - 3\sqrt{48}$

12. $\sqrt{2}(\sqrt{6} + 3)$

13. $(2 + \sqrt{5})(3 + \sqrt{15})$